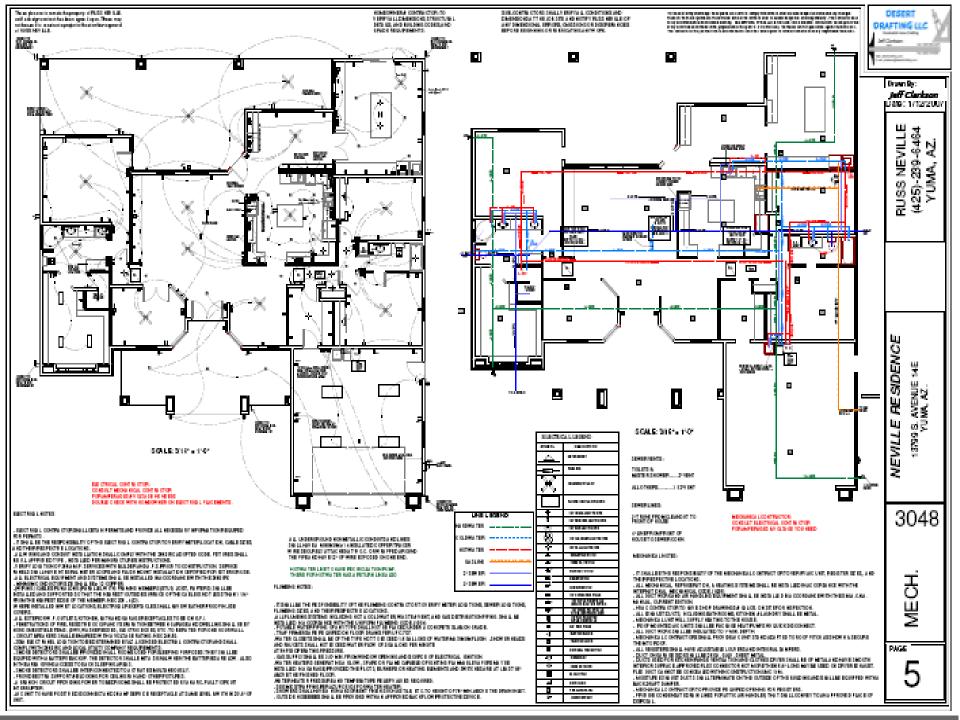
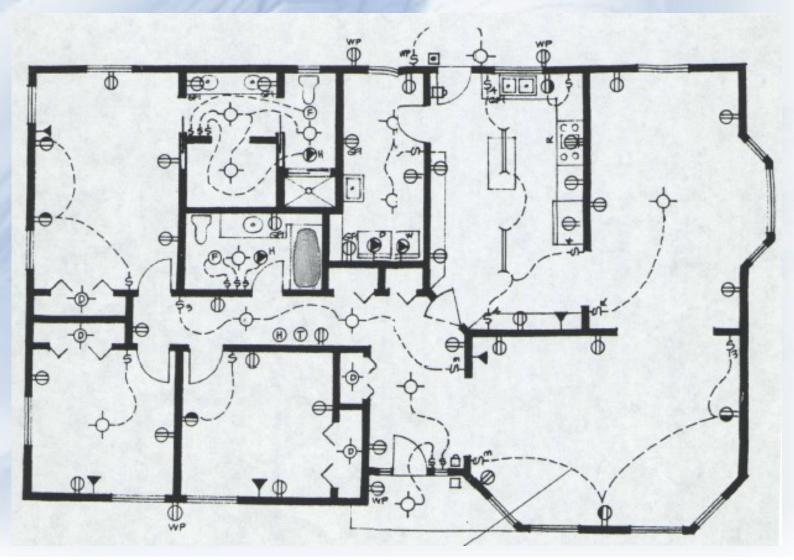
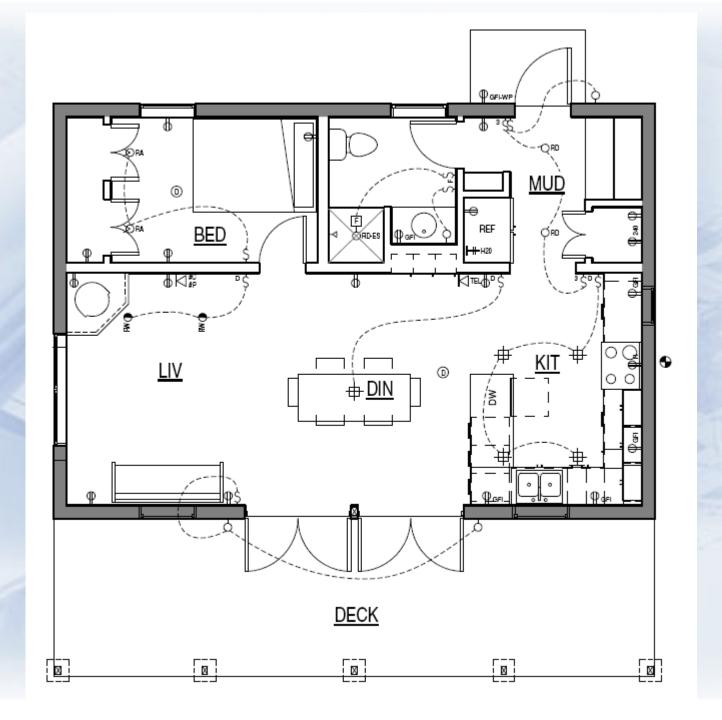
# Electrical Plans & Symbols



- Symbols are used throughout construction industry to illustrate typical devices, equipment, fixtures, and other related items.
- Many projects require engineers and architects to create non-typical symbols relating to job conditions.
- Common symbol knowledge is essential in reading blueprints.
- Symbols are fairly typical, but each architect may have varying styles.





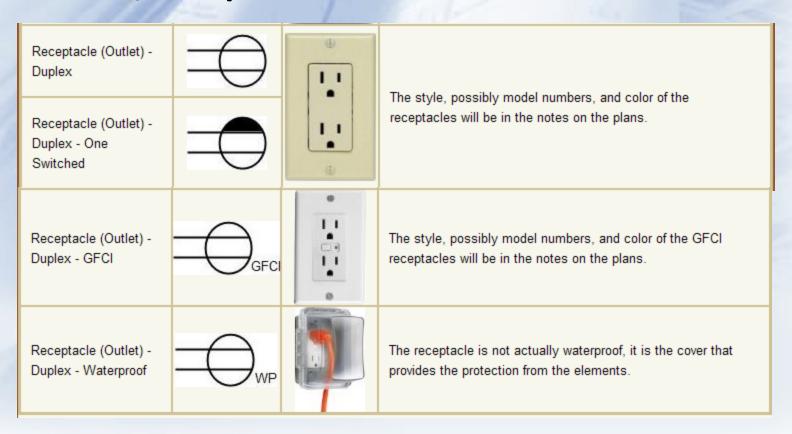
#### **Electrical Panel**

Electrical Panel

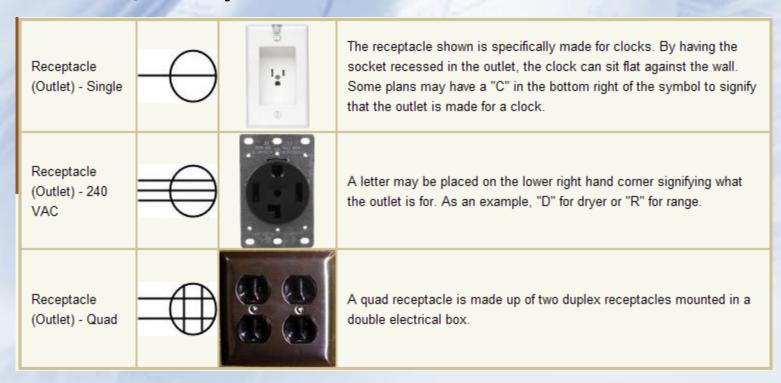


The notes may or may not specify an electrical panel (load center) manufacture and/or the number of circuits. In many cases it is left to the discretion of the electrical contractor. It is expected that the electrical contractor will provide the correct amount of circuits to meet the local building codes.

#### **Outlets/Receptacles**



#### **Outlets/Receptacles**



#### Technical Data

# Electrical Symbols and Abbreviations In Accordance with American National Standards Institute

General Outlets			
Ceiling	Ceiling Wall		
0	9	Lighting Outlet	
<b>(B)</b>	<b>√</b> ®	Blanked outlet	
<b>®</b>		Deep cord	
Ē	Œ	Electrical outlet: for use only when circle used alone might be confused with columns, plumbing symbols, etc.	
(Ē)	-(Ē)	Fan outlet	
0	-(3)	Junction box	
_ ©	<b>(</b>	Lamp holder	
Q.	-Q,	Lamp holder with pull switch	
(§)	<b>-</b> (S)	Pull switch	
<b>(V)</b>	<b>-</b> ₩	Outlet for vapor discharge lamp	
<b>(X)</b>	-(⊗)	Exit light outlet	
©	<b>(</b> ©)	Clock outlet (specify voltage)	

#### Technical Data

# Electrical Symbols and Abbreviations In Accordance with American National Standards Institute

-		
Convenience Outlets		
$\Rightarrow$	Duplex convenience outlet	
₩,	Convenience outlet other than duplex 1-single, 3-triplex, etc.	
₩,	Weatherproof convenience outlet	
₩,	Range outlet	
⊕,	Switch and convenience outlet	
	Radio and convenience outlet	
<b>(A)</b>	Special purpose outlet (Des. in Spec.)	
$\Theta$	Floor outlet	

Outlets/ Receptacles

	110V RECEPTICAL
⊕ s	SWITCH RECEPTICAL
⊕ gFI	GROUND FAULT CURRENT INTERRUPTER RECEPTACLE
⊕ GFI-WP	GFI AND WATER PROOF RECEPTACLE
Фм	MICROWAVE OVEN RECEPTICAL
₽R	RANGE RECEPTICAL
⊕ uc	UNDER COUNTER RECEPTICAL
240	240V RECEPTICAL
	110V FLOOR RECEPTICAL

#### **Switches**

Switch	S	•	
Switch - 3 Way	S₃		The style, possibly model numbers,and color of the switches will be in the notes on the plans.
Switch - 4 Way	S <sub>4</sub>	0	
Switch - Dimmer	S <sub>DM</sub>		T1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Switch - Dimmer - 3 Way	SзDM		The style, possibly model numbers, and color of the dimmers will be in the notes on the plans.

#### Technical Data

# Electrical Symbols and Abbreviations In Accordance with American National Standards Institute

Switch	Outlets
S	Single pole switch
S <sub>2</sub>	Double pole switch
S <sub>3</sub>	Three way switch
S <sub>4</sub>	Four way switch
SD	Automatic door switch
SE	Electrolier switch
S <sub>K</sub>	Key operated switch
Sp	Switch and pilot lamp
S <sub>CB</sub>	Circuit breaker switch
SwcB	Weatherproof circuit breaker
S <sub>MC</sub>	Momentary contact switch
S <sub>RC</sub>	Remote control switch
S <sub>WP</sub>	Weatherproof switch
S <sub>F</sub>	Fused switch
SWF	Weatherproof fused switch

#### **Switches**

Ş	LIGHT SWITCH
\$ 2	DOUBLE LIGHT SWITCH
Ş 3	3-WAY LIGHT SWITCH
ŞD	DIMMER LIGHT SWITCH
ŞF	OCCUPANCY SENSOR FAN SWITCH
KR	KEY ROOM MASTER CONTROL
KS	KEY SCENE MASTER CONTROL
G	GRAPHIC EYE

#### **Fixtures/Lights**

Device Name	Device Symbol	Device Picture	Comment
Light Fixture - Wall Mounted	$\bigcirc$	The state of the s	The symbol does not indicate the type of fixture. The symbol only tells the electrician that he must install a wall electrical box for a light fixture in that location.
Light Fixture - Ceiling Mounted	$\Diamond$		The symbol does not indicate the type of fixture. The symbol only tells the electrician that he must install a ceiling, light fixture, electrical box in that location.
Light Fixture - Pull Chain	- <del>-</del>	13	The exact style of pull chain lamp socket is usually left to the discretion of the electrical contractor.

#### **Fixtures**



The number of horizontal lines between the vertical end lines, indicate the number of lamps. The notes will state the style of fixture.

Light Fixture -Recessed



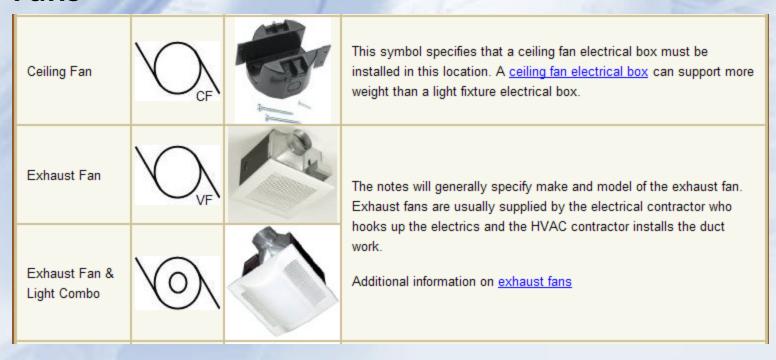


The notes will specify the style and type of recessed light fixture including the trim

#### **Fixtures/Lights**

○RD	RECESSED DOWN LIGHT
○ RD-ES	RECESSED DOWN LIGHT ENERGY STAR RATED
€RW	RECESSED WALL WASHER
≫RA	RECESSED ACCENT DIRECTIONAL
© RG	RECESSED GLASS
-	CEILING BOX
F	BATHROOM EXHAUST FAN
9	WALL MOUNTED FIXTURE
	LED LINEAR
	IN-WALL LED STEP LIGHT W/ REMOTE TIMER CONTROL
	FLUORESCENT STRIP

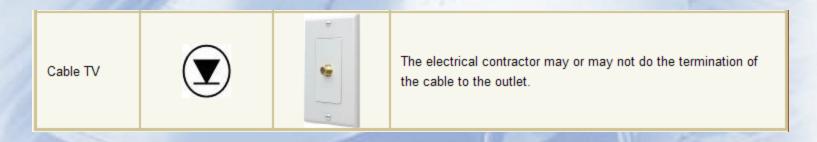
#### **Fans**



#### Miscellaneous



#### Miscellaneous



#### Miscellaneous

T	THERMOSTAT
(D)	SMOKE & CARBON MONOXIDE DETECTOR
•	NATURAL GAS/PROPANE HOOKUP
⊮C #P	MULTIMEDIA JACK (NETWORK/TV)
<b>◯</b> TEL	TELEPHONE JACK
DRBL	DOOR BELL
CHIME COO	DOOR BELL CHIME
<u></u>	ICE MAKER
	CEILING FAN

